Appl. No. 10/581,434
Amdt. dated March 24, 2010
Amendment under 37 CFR 1.116 Expedited Procedure
Examining Group 2626

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-6.   (Canceled)

1   7.   (Currently amended) A device control device comprising:
2   input information recognition means which recognizes input information to be
3   input;
4   process-item data storing means which stores a plurality of process items for
5   executing processes corresponding to recognized information recognized by the input
6   information recognition means; and
7   transition-definition data storing means which stores plural pieces of transition
8   definition data defining transition from one process item in the plurality of process items to
9   another process item, wherein
10   each piece of said transition definition data includes a condition corresponding to
11   input information and a weighting factor corresponding to said condition,
12   said recognized information includes a likelihood indicating a status of matching
13   between said input information and the condition of said transition definition data,
14   said weighting factor included in said transition definition data is associated with
15   abeing multiplied with said likelihood included in said recognized information, corresponding to
16   the condition of said transition definition data to obtainthereby obtaining a result of
17   discrimination for the condition of each transition definition data thus stored, and
18   a piece of transition definition data is selected based on said discrimination result,
19   and a status is transitioned to a process item designated by the selected transition definition data.

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1   8.   (Original) The device control device according to claim 7, wherein when
2 a jump is made from a predetermined process item to a process item or transition definition data
3 which is not defined by transition defining data, transition definition data corresponding to the
4 process item or transition definition data jumped from said predetermined process item is
5 generated.

1   9.   (Original) The device control device according to claim 7, wherein a
2 transition constant which is a calculation standard for said weighting factor is set as a constant
3 corresponding to said transition definition data, and
4   a weighting factor of transition definition data relating to another process item
5 linked to one process item whose status is transitioned is calculated by accumulating said
6 constants from the constant for transition definition data relating to one process item to the
7 constant for transition definition data relating to the another process item.

1   10.   (Original) The device control device according to claim 9, wherein said
2 transition constant changes, provided that transition definition data relating to said transition
3 constant is selected.

1   11.   (Currently amended) The device control device according to claim 7,
2 ~~further comprising when a status is transitioned to one process item,~~wherein a weighting factor
3 of transition definition data relating to a predetermined process item is set higher than a
4 predetermined value.

1   12.   (Original) The device control device according to claim 7, wherein said
2 input information is a speech signal, and
3   the condition of said transition definition data is a word subject to speech
4 recognition.

1   13.   (Original) The device control device according to claim 7, wherein a
2 plurality of conditions are set for a piece of transition definition data.

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1   14.   (Currently amended) A device control device that has process-item data

2 storing means which stores a plurality of process items for executing processes corresponding to

3 recognized information obtained by recognizing input information, and

4   defines transition from one process item in the plurality of process items to

5 another process item by transition definition data which associates a discrimination condition

6 with a weighting factor, wherein[[, and]]

7   said recognized information includes a likelihood indicating a status of matching

8 between input information input by a speech and said discrimination condition included in said

9 transition definition data, and

10   said device changes said weighting factor in accordance with a link to said input

11 information and generates a flowchart of process items by adding or deleting said transition

12 definition data based on a product of said weighting factor thus changed and said likelihood in

13 accordance with a link to a necessary process item.

1   15.   (Previously presented) The device control device according to claim 14,

2 wherein said process-item data storing means is constituted in such a manner that a process item

3 can be added adequately.

1   16 and 17.   (Canceled)

1   18.   (Currently amended) The device control device according to claim 14

2 [[16]], wherein said input information is a speech signal,

3   the condition of said transition definition data is a target word subject to speech

4 recognition,

5   said recognized information includes a likelihood indicating a status of matching

6 between the speech signal and the target word of said transition definition data,

7   said likelihood corresponding to the target word of said transition definition data

8 is set in said transition definition data, and

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9   a piece of said transition definition data is selected in accordance with said

10   likelihood, and a state is transitioned to a process item represented by said selected piece of

11   transition definition data.

          19.   (Canceled)

1   20.   (Currently amended) The device control device according to claim

2   <u>14</u>[[19]], wherein a transition constant which is a calculation standard for said weighting factor is

3   set as a constant corresponding to said transition definition data, and

4   a weighting factor of transition definition data relating to another process item

5   linked to one process item whose status is transitioned is calculated by accumulating said

6   constants from the constant for transition definition data relating to one process item to the

7   constant for transition definition data relating to the another process item.

          21-22. (Canceled)

1   23.   (Currently amended) A speech recognition device comprising:

2   input information recognition means which recognizes input information to be

3   input;

4   process-item data storing means which stores a plurality of process items for

5   executing processes corresponding to recognized information recognized by the input

6   information recognition means; and

7   transition-definition data storing means which stores plural pieces of transition

8   definition data defining transition from one process item in the plurality of process items to

9   another process item, wherein

10   each piece of said transition definition data includes a condition corresponding to

11   input information and a weighting factor corresponding to said condition,

12   said recognized information includes a likelihood indicating a status of matching

13   between said input information and the condition of said transition definition data,

14   said weighting factor ~~is associated with a likelihood corresponding to the~~
15   ~~condition of~~ included in said transition definition data is multiplied with said likelihood included
16   in said recognized information, thereby obtaining ~~to obtain~~ a result of discrimination for the
17   condition of each transition definition data thus stored, and
18   a piece of transition definition data is selected based on said discrimination result,
19   and a status is transitioned to a process item designated by the selected transition definition data.

1   24.   (Currently amended) A speech recognition device that has process-item
2   data storing means which stores a plurality of process items for executing processes
3   corresponding to recognized information obtained by recognizing input information,
4   defines transition from one process item in the plurality of process items to
5   another process item by transition definition data which associates a discrimination condition
6   with a weighting factor, wherein[[, and]]
7   said recognized information includes a likelihood indicating a status of matching
8   between input information input by a speech and said discrimination condition included in said
9   transition definition data, and
10   said device changes said weighting factor in accordance with a link to said input
11   information and generates a flowchart of process items by adding or deleting said transition
12   definition data based on a product of said weighting factor thus changed and said likelihood ~~in~~
13   ~~accordance with a link to a necessary process item~~.

        25-26. (Canceled)

1   27.   (Currently Amended) An agent device comprising:
2   input information recognition means which recognizes input information to be
3   input;
4   process-item data storing means which stores a plurality of process items for
5   executing processes corresponding to recognized information recognized by the input
6   information recognition means; and

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7   transition-definition data storing means which stores plural pieces of transition

8   definition data defining transition from one process item in the plurality of process items to

9   another process item, wherein

10   each piece of said transition definition data includes a condition corresponding to

11   input information and a weighting factor corresponding to said condition,

12   said recognized information includes a likelihood indicating a status of matching

13   between said input information and the condition of said transition definition data,

14   said weighting factor ~~is associated with a likelihood corresponding to the~~

15   ~~condition of~~included in said transition definition data is multiplied with said likelihood included

16   in said recognized information, thereby obtaining~~to obtain~~ a result of discrimination for the

17   condition of each transition definition data thus stored, and

18   a piece of transition definition data is selected based on said discrimination result,

19   and a status is transitioned to a process item designated by the selected transition definition data.

1   28.   (Currently amended) An agent device that has process-item data storing

2   means which stores a plurality of process items for executing processes corresponding to

3   recognized information obtained by recognizing input information,

4   defines transition from one process item in the plurality of process items to

5   another process item by transition definition data which associates a discrimination condition

6   with a weighting factor, wherein[[, and]]

7   said recognized information includes a likelihood indicating a status of matching

8   between input information input by a speech and said discrimination condition included in said

9   transition definition data, and

10   said device changes said weighting factor in accordance with a link to said input

11   information and generates a flowchart of process items by adding or deleting said transition

12   definition data based on a product of said weighting factor thus changed and said likelihood ~~in~~

13   ~~accordance with a link to a necessary process item~~.

29-31. (Canceled)

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1   32.   (Currently amended) A device control method comprising:

2   an input information recognition step of recognizing input information to be

3 input;

4   a step of specifying a likelihood, which indicates a status of matching between a

5 condition associated with transition definition data defining transition from one process item in a

6 plurality of process items to another process item and said input information, from recognized

7 information recognized at said input information recognition step;

8   <u>a step of multiplying a weighting factor included in said transition definition data</u>

9 <u>is multiplied with said likelihood included in said recognized information, thereby obtaining a</u>

10 <u>result of discrimination for the condition of each transition definition data thus stored;</u>

11   ~~a step of obtaining a discrimination result by relating a weighting factor~~

12 ~~associated with said transition definition data to said likelihood;~~

13   a step of selecting a piece of transition definition data based on said

14 discrimination result; and

15   a step of transitioning a status to a process item designated by the selected

16 transition definition data.

1   33.   (Currently amended) A device control method comprising:

2   <u>a</u> process-item data storing step of storing a plurality of process items for

3 executing processes corresponding to ~~input~~ <u>recognized</u> information <u>obtained by recognizing</u>

4 <u>input information input by a speech, said recognized information including a likelihood</u>

5 <u>indicating a status of matching between said input information and a discrimination condition</u>

6 <u>included in transition definition data</u>;

7   a step of defining transition from one process item in a plurality of process items

8 to another process item by transition definition data <u>which associates a discrimination condition</u>

9 <u>with a weighting factor</u>[[.]]<u>;</u> and

10   <u>a step of changing said weighting factor in accordance with a link to said input</u>

11 <u>information and</u> generating a flowchart of process items by adding or deleting said transition

12   ~~process~~ definition data based on a product of said weighting factor thus changed and said

13   likelihood ~~in accordance with a link of a necessary process item~~.